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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/915,853	07/26/2001	Takafumi Ueno	12013/58002	7372	
200.0	26646 7590 07/16/2002 KENYON & KENYON		EXAMINER		
ONE BROADWAY NEW YORK, NY 10004			YAEN, CHRIS	HRISTOPHER H	
-			ART UNIT	PAPER NUMBER	
			1642 DATE MÂILED: 07/16/2002	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

· •		Application No.	Applicant(s)			
Office Action Summary		09/915,853	UENO ET AL.			
		Examiner	Art Unit			
		Christopher H Yaen	1642			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)🛛	Responsive to communication(s) filed on 26	<u>July 2001</u> .				
2a)□	77110 4041011 10 7 11 11 1	his action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-69 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.					
•	6) Claim(s) is/are rejected.					
-	Claim(s) is/are objected to.					
8) Claim(s) 1-69 are subject to restriction and/or election requirement.						
	ion Papers					
9) The specification is objected to by the Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	The proposed drawing correction filed on	is: a)∏ approved b)∏ disap	proved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	 Certified copies of the priority documents have been received. 					
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
2) Not	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948) ormation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Infor	mary (PTO-413) Paper No(s) mal Patent Application (PTO-152)			

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-55, drawn to methods of forming new blood vessels, increasing blood flow, treating diseased tissue, increasing angiogenesis, preventing heart failure, and a method of regenerating tissue, classified in class 435, subclass 372.
 - II. Claims 56-69, drawn to a method of delivering a recombinant nucleic acid molecule, classified in class 435, subclass 455.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions differ one from the other because the methods are patentably distinct. They are methods drawn to different subject matter, wherein the inventions use different products, steps and have different outcomes. For example, the method of group II is drawn to a method comprising an autologous bone marrow mononuclear cell transformed with a recombinant nucleic acid molecule, whereas the invention of group I is drawn to a method of comprising an autologous bone marrow mononuclear cell.

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3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

4. This application contains claims directed to the following patentably distinct species of the claimed invention:

If applicant elects group I, please select one tissue type selected from the following: heart muscle, skeletal muscle, brain, kidney, liver, an organ of the GI tract, coronary blood vessel, peripheral blood vessel, atrophied muscle, skin or lung (claims 6,19,27,36, and 53).

If applicant elects group II, please select:

- a. **one cytokine**: G-CSF, GM-CSF, VEGF, SCF (c-kit ligand), bFGF, chemokine, and interleukin (claim 59);
- b. **one cell survival protein**: heme oxygenase, AKT (serine-threonin kinase), HIFalpha (hypoxia inducible factor), Del-1 (developmental embryonic locus-1), NOS (nitric oxide synthase), BMP's (bome morphogenic proteins), B2-adrenergic receptor, and SERCA2a (sarcoplasmic reticulum calcium ATPase) (claim 61); and
- one tissue: heart muscle, skeletal muscle, brain, kidney, liver, an organ of the GI tract, coronary blood vessel, peripheral blood vessel, atrophied muscle, skin or lung (claim 67).

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 6,19,27,36,53,59,61,and 67 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

2. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher H Yaen whose telephone number is 703-305-3586. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Caputa can be reached on 703-308-3995. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Christopher Yaen Art Unit 1642 July 15, 2002

ANTHONY C. CAPUTA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600